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## Response to Notice of Allowance mailed 12/11/09

Examiner: FARIS S ALMATRAHI

Art Unit: 3609

Title: Compact Item Descriptor, Catalog System and Item Part Number Validation

Application Number: 10/602,301

Inventor: Norman Ken Ouchi

Date: December 16, 2009

The Drawings are objected to under 37 CFR 1.83(a)

Attached are two new sheets: Sheet 7 and Sheet 8 where Figure 5 illustrates compact descriptor generation including the step of adding a character or substring of characters, appending labels, ordering parameters and encoding value for each parameter and Figure 6 illustrates commodity code generation.

A replacement sheet for Sheet 5 is attached. Table 4 Item Catalog where a field is now labeled as Description rather than Descriptor and a field is now labeled a Part Number rather than Supplier P/N.

The Brief Description of Drawings have been amended for the added figures and amendments to the field names in Table 4.

Discussion on Drawings

Tables 1, 2, 4, 5, and 6 of the previous submission illustrate representative table structures and data in database entries in a SQL database to implement the present invention.

Table 1 illustrates a Classification Tree SQL Table including an item description field accessible by a SQL query. Table 1 also illustrates a labeling in the Commodity Code field.

Table 4 illustrates an Item Catalog including a part number, description field with compact descriptor in the field, a supplier name, and supplier part number in the part number field.

The inventor sincerely appreciates the Examiner's assistance in the prosecution of the present patent application.

Respectfully Submitted



N. K. Ouchi

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## BRIEF DESCRIPTION OF DRAWINGS

[0027] Figure 1 illustrates a classification tree for white flour.

[0028] Figure 2 illustrates a classification tree with parameter-values for white flour.

[0029] Figure 3 illustrates a classification tree with parameter-value descriptions and lengths to generate a compact item descriptor.

[0030] Figure 4 illustrates the part number structure for a Kemet ceramic capacitor

Table 1 illustrates the Classification SQL Table for the classification tree of Figure 3.

Table 2 illustrates the Parameter SQL Table for the parameters of Figure 3.

Table 4 illustrates the Item Catalog as an SQL table where the supplier, supplier part number in the part number field, compact item descriptor in the description field, and commodity codes are organized for queries that relate these fields including distinct items that are interchangeable and have the same compact item descriptor.

Table 5 illustrates the Supplier P/N Alias Table as an SQL table that relates alias part numbers for an item where a query with the alias part number returns the item with the compact descriptor.

Table 6 illustrates the Supplier Suffix Table as an SQL table that relates a supplier and manufacturing process requirements with the modification of the part number for an item that meets the manufacturing process requirements.

Figure 5 illustrates a flowchart of the Compact Descriptor Generation using the Classification SQL Table and Parameter SQL Table.

Figure 6 illustrates a flowchart of the Commodity Code Generation using the Classification SQL Table.

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Sheet 5

Replacement Sheet

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Table 1 Classification Tree SQL Table

Child	Parent	Commodity Code	Description	Branch/Leaf
Capacitor <u>16</u>	Root <u>15</u>	C <u>20</u>	All capacitors	branch
Resistor <u>18</u>	Root <u>15</u>	R <u>24</u>	All resistors	branch
Ceramic <u>17</u>	Capacitor <u>16</u>	Cc <u>21</u>	Ceramic caps	branch
Chip <u>19</u>	Ceramic <u>17</u>	CcC <u>23</u>	SMT caps	leaf

Table 2. Parameter SQL Table

Parameter ID	Link	Commodity Code	Parameter	Length	Character
1	START	CcC <u>23</u>	Body Size <u>25</u>	4	CcC <u>23</u>
2	1	CcC <u>23</u>	Standard code <u>26</u>	1	
3	2	CcC <u>23</u>	Capacitance <u>27</u>	3	
4	3	CcC <u>23</u>	Tolerance <u>28</u>	1	
5	4	CcC <u>23</u>	Voltage <u>29</u>	1	
6	5	CcC <u>23</u>	Temperature <u>30</u>	1	
7	6	CcC <u>23</u>	Failure rate <u>31</u>	1	
8	null	CcC <u>23</u>	End Metal <u>32</u>	1	

Table 4 Item Catalog

Item ID	Supplier	Part Number	Description	Commodity Code
1	Kemet	C0805C103K5RAC	CcC0805C103K5RAC	CcC <u>23</u>
2	AllCaps	AC0805K103AWQ	CcC0805C103K5RAC	CcC <u>23</u>
3	Caps.com	CC534GRW0805X	CcC0805C103K5RAC	CcC <u>23</u>